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March 24, 1992

Meeting Minutes Transmittal/Approval  
300-FF-5 Operable Unit Managers Meeting  
345 Hills Street, Richland, WA  
February 27, 1992

FROM/APPROVAL: Eric D. Goller Date 3-26-92  
Eric D. Goller, 300-FF-5 Unit Manager, RL (A5-19)

APPROVAL: David R. Einar Date 26 Mar 92  
Dave Einar, 300-FF-5 Unit Manager, EPA (B5-01)

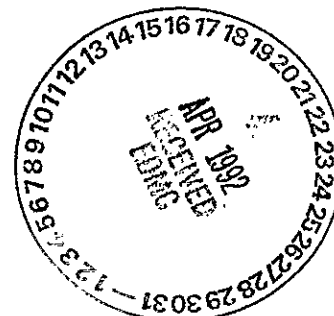
APPROVAL: Charles S. Cline Date 4/2/92  
Charles S. Cline, 300-FF-5 Unit Manager, WA Department of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements.
- Attachment #2 - Attendance List for 300-FF-1 and 300-FF-5.
- Attachment #3 - Agenda For 300-FF-5 Meeting.
- Attachment #4 - Action Items Status List.
- Attachment #5 - 300-FF-5 Operable Unit RI/FS Work Progress.
- Attachment #6 - 300-FF-5 Remedial Investigation Summary Schedule.
- Attachment #7 - Plan for Second Round Groundwater Sampling For 300-FF-5.
- Attachment #8 - 300 Area Water Level Elevations: SWS-1 and Well 1-16B.
- Attachment #9 - 300 Area River Stage Fluctuations.
- Attachment #10 - Change Form 300-FF-5-13: Phased Approach to Aquatic Sampling.

PREPARED BY: Suzanne E. Clarke Date 3/26/92  
SWEC Support Services

CONCURRENCE BY: L.C. Hulstrom Date 3/26/92  
L. Hulstrom, WHC FF-5 RI Coordinator



Attachment #1

Meeting Summary

300-FF-5 Operable Unit Managers Meeting  
February 27, 1992

Action Item Update

1. The status of outstanding action items was updated and the changes are reflected in the table shown in Attachment #4.
  - Action Item #3FF5.15 was closed at the January UMM.
  - Action Item #3FF5.16: Larry Hulstrom provided a draft of the well summary sheets from borehole 1C (pgs. 3 & 4) which was compiled from 23 pages of field notes and a corresponding sample log summary (pgs. 5 & 6). Dave Einan stated that the report format fulfilled their needs, but that EPA wanted to see data for all boreholes in order to close the action item. It was agreed that L. Hulstrom would provide xerox copies of all handwritten borehole field logs by or before the March UMM.
  - Action Item #3FF5.17 was closed at this meeting based on information presented at the January UMM.

300-FF-5 Operable Unit RI/FS Activities/Work Progress

2. Larry Hulstrom (WHC) presented the status of remedial investigation /feasibility study (RI/FS) activities. These activities are described in Attachments 5 and 6.
3. Larry Hulstrom received preliminary field screening data from PNL on February 26 which appears to confirm the elevated levels of TCE and DCE present in wells 16B and 16C (described in Attachment 5, page 3). L. Hulstrom discussed a working hypothesis to explain the presence of high concentrations of TCE and DCE at one location. The data might be explained by a low point in the confined and unconfined aquifer in the area of the 1-16 site which might act to pool and confine these dense volatile organic molecules. On the basis of this hypothesis, L. Hulstrom recommended that it would be inadvisable to disturb the system by further remediation of 16D until more information is known. L. Hulstrom also observed that remediation could be facilitated if the TCE and DCE were pooled rather than dispersed.

Dave Einan and Eric Goller raised concerns that the increased sampling frequency might disturb the site. L. Hulstrom agreed to ask PNL about their sampling protocols (with respect to purge volumes) and continue the discussion with E. Goller and D. Einan after the information was obtained.

Plan For Round 2 Groundwater Sampling/Analysis: RCRA/CERCLA Integration

4. The plan for round 2 groundwater sampling is presented in Attachment 7. The strategy is to include data gathering activities to study the comparability of values obtained via CLP and SW-846. Central to the experimental design is the choice of wells containing analytes known to be above detection limits.

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### Proposed Phased Approach to Aquatic Biota Sampling.

5. Charles Brandt presented the proposed phased approach to aquatic biota sampling (Attachment 10) which involves deferring some of the studies to the Phase II RI. The justification arises from the work plan which describes initial studies of lower trophic levels followed by studies of higher trophic levels only if deemed necessary after data evaluation of lower trophic levels. The strategy of the change order reflects the spirit of the work plan, but clarifies some phrasing concerning the study of the aquatic biota. Implementation of the change order will impact the baseline risk assessment, *i.e.* the baseline risk assessment would be generated by extrapolation from the primary producer contaminant concentrations up the food chain.

### Change Orders

Change order 300-FF-5-13 (Item 5 above and Attachment 10) addresses the proposed phased approach to aquatic biota sampling. (This attachment was approved and distributed on February 27).

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Attendance  
300-FF-1, FF-5 Operable Units Managers Meetings  
February 1992

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## Attachment #2

## Attendance List

300-FF-1 and 300-FF-5  
Operable Unit Managers Meeting  
February 27, 1992

Name	Organization	Role	Phone
McLeod, Bob	DOE-RL	Unit Manager	(509) 372-0096
Goller, Eric	DOE-RL	FF-5 UM	(509) 376-7326
Trieche, Lisa	DOE-HQ		(301) 903-8177
McClung, Bill	SWEC	GSSC/RL	(509) 376-1853
Clarke, Suzanne	SWEC	GSSC/RL	(509) 372-0630
Knox, Kathy	CNES	GSSC/RL	(509) 376-5011
Goswami, Dib	Ecology	OU Manager	(206) 493-9367
Einan, Dave	EPA	Unit Manager	(509) 376-3883
Lacombe, Donna	PRC	EPA Support	(206) 624-2692
Drost, Brian	USGS	EPA Support	(206) 593-6510
Hulstrom, Larry	WHC	O.U. Coordinator	(509) 376-4034
Frank, Michael	WHC	RI Assistant	(509) 376-2731
Henckel, George	WHC	O.U. Coordinator	(509) 376-1994
Downey, Hal	WHC	Program Office	(509) 376-5539
Pool, Karl	WHC	OSM	(509) 373-3137
Carlson, Richard	WHC	EEG 200/300 Mag.	(509) 376-9027
Brandt, Charles	PNL	Task-7-FF-5	(509) 376-5345
Cushing, C.E.	PNL	Task 7-FF-5	(509) 376-9670

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Attachment #3

UNIT MANAGER'S MEETING AGENDA  
300-FF-5 OU  
February 27, 1992  
9:00 - 10:30  
EPA Conference Room

Introduction:

Status:

Action Items

Remedial Investigation

Schedule

Issues:

Other Topics:

Approach for Second Quarter Groundwater Sampling

Phased Approach to Aquatic Biota Sampling

Agreements and Commitments

Presenter - Larry Hulstrom

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## Attachment #4

## Commitments/Agreements Status List

300-FF-5 Operable Unit

February 27, 1992

Item No.	Action	Status
3FF5.16	The summarized well construction data and the field observations of 300-FF-5 activities are to be transmitted to Ecology and EPA. Action: L. Hulstrom and E. Goller (1/23/92)	Closed Draft examples of information to be provided at this meeting.
3FF5.17	Copies of handouts on EMI, GPR, and seismic transect locations in the 300 Area are to be transmitted to Ecology and EPA. Action: J. Kunk and E. Goller (1/23/92)	Closed Information provided for inclusion in Jan. UMM.

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## WELL SUMMARY SHEET

Boring or Well No. **699-S29-E16C, (1C)**  
 Northing 114730.80 Easting 594742.44  
 Sheet 1 of 2

Location 300 Area Project 300-FF-5  
 Elevation 377.03 Drilling Contractor KEH  
 Driller D. Rossman Drilling Method and Equipment Cable Tool Well Master  
 Prepared by \_\_\_\_\_ Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
 (Sign/Print Name) (Sign/Print Name)

CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA	
Description	Well Construction		Graphic Log	Lithologic Description
Portland Cement from 0 to 19.4'.		0		0-3' SLIGHTLY SILTY SAND.
		10		3-7' SANDY GRAVEL.
		20		7-15' GRAVEL.
Bentonite Crumbles from 19.4 to 32.2'.		30		15-30' GRAVELLY SAND.
Bentonite Slurry from 32.2 to 137.5'.		40		30-34.5' SANDY GRAVEL.
16" casing set at 39.8'.		50		34.5-41' SANDY, CLAYEY, GRAVEL.
		60		41-57' GRAVEL.
		70		57-59' SILTY GRAVELLY SAND.
		80		59.4-75' SANDY GRAVEL.
		90		75-76' SAND.
				76-81' SANDY, GRAVEL.
				81-81.5' SAND.
				81.5-87' SILTY, SANDY, GRAVEL with alternating SAND.
12" casing set at 90.2'.				87-100' SILTY, SANDY, GRAVEL.

C/Z S P C/B



## WELL SUMMARY SHEET

Boring or Well No. **699-S29-E16C, (1C)**  
 Northing 114730.80 Easting 594742.44  
 Sheet 2 of 2

Location 300 Area Project 300-FF-5  
 Elevation 377.03 Drilling Contractor KEH  
 Driller D. Rossman Drilling Method and Equipment Cable Tool Well Master  
 Prepared by \_\_\_\_\_ Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
 (Sign/Print Name) (Sign/Print Name)

CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA	
Description	Well Construction		Graphic Log	Lithologic Description
				100-119' SILTY, SAND.
		110		
		120		119-165' CLAY and SILTY CLAY.
		130		
		140		
10" casing set at 144.6'.		150		
Cement Slurry from 137.5 to 157.2'.		160		
Bentonite Slurry from 157.2 to 160.3'.		170		165.5-175' SAND.
40-100 Silica Sand from 160.3 to 162.4'.		180		BASALT
4" T-304 SS Wire Wrap				TOTAL DEPTH IS 177.9'
0.010 Slot Screen set at 165.3 to 176'.		190		
9" casing set at 174.7 ft				
20-40 Silica Sand from 162.4 to 177.9'.				
TD = 177.9 FT.				

C/Z S P C/B

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WELL NO.	SAMPLE NO.	SAMPLE DEPTH (FT)	CaCO3 CONC. (%/g)	MOISTURE %	COMPACTED POROSITY %	COMPACTED SPECIFIC GRAVITY	DRY DENSITY (g/cc)	PEBBLE %	SAND %	SILT %	CLAY %
1C	B00WN4	5	0.6	2.53	NR	NR	NR	.4	94.1	5.5	0.0
1C	B00WN5	9.9-11.7	1.0	1.15	16.60	2.74	2.28	67.1	25.2	7.7	0.0
1C	B00WN6	15-17	0.2	2.97	37.25	2.80	1.76	29.8	68.4	1.8	0.0
1C	B00WN7	17	0.4	40.60	NR	2.66	NR	11.2	23.4	48.4	17.0
1C	B00WN8	20.2-22.2	0.4	2.96	33.28	2.77	1.85	36.8	58.9	4.3	0.0
1C	B00WN9	25-27	0.2	2.36	25.22	2.77	2.07	62.1	33.9	4.0	0.0
1C	B00WP0	30-32	0.0	3.91	34.54	2.73	1.79	67.3	23.9	8.8	0.0
1C	B00WP1	34.5-36.5	0.2	5.61	16.35	2.66	2.23	84.1	11.8	4.1	0.0
1C	B00WP2	41.5-42.5	0.2	2.67	NR	NR	NR	96.5	3.3	0.2	0.0
1C	B00WP3	59.4-62	SO	5.60	11.83	2.66	2.35	76.9	19.9	3.2	0.0
1C	B00WP4	64-66	SO	+	NR	NR	NR	82.4	14.9	2.7	0.0
1C	B00WP5	70.5-72.5	SO	5.01 M	13.69	2.67	2.36	82.3	13.6	4.1	0.0
1C	B00WP6	75-76	SO	14.90 M	NR	NR	NR	12.0	66.3	21.7	0.0
1C	B00WP7	76-77	SO	2.73 M	NR	NR	NR	14.0	82.3	3.7	0.0
1C	B00WC0	80-81.5	SO	7.31 M	10.73	2.60	2.32	72.8	21.4	5.8	0.0
1C	B00WC1	81.5-82.5	SO	6.02 M	NR	NR	NR	77.0	19.4	3.6	0.0
1C	B00WC2	83.5-84	SO	24.89 M	NR	NR	NR	0.0	91.4	8.6	0.0
1C	B00WC3	85-87	SO	11.10 M	19.39	2.64	2.12	57.5	36.2	6.3	0.0

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WELL NO.	SAMPLE NO.	SAMPLE DEPTH (FT)	CaCO3 CONC. (%/g)	MOISTURE %	COMPACTED POROSITY %	COMPACTED SPECIFIC GRAVITY	DRY DENSITY (g/cc)	PEBBLE %	SAND %	SILT %	CLAY %
1C	B00WC4	100-102	SO	19.89 M	34.62	2.70	1.77	.6	47.2	39.6	12.6
1C	B00WC5	105-107	SO	18.57 M	32.61	2.67	1.80	4.3	39.8	40.9	15.0
1C	B00WC6	115-116.7	SO	30.80 M	46.61	2.63	1.41	.4	72.1	24.5	3.0
1C	B00WC7	119-121	SO	40.68 M	52.90	2.67	1.26	4.5	20.2	59.3	16.0
1C	B00WC8	125-126.6	SO	42.14 M	52.25	2.62	1.25	0.0	13.4	70.6	16.0
1C	B00WC9	130-132	SO	45.32 M	53.52	2.62	1.22	0.0	12.9	71.1	16.0
1C	B00WD0	135-137	SO	47.51 M	55.82	2.63	1.16	0.0	21.6	66.2	12.2
1C	B00WD1	142-144	SO	47.34 M	55.30	2.65	1.19	0.0	13.7	70.3	16.0
1C	B00WD2	145-147	SO	47.07 M	53.73	2.70	1.20	19.8	14.5	55.6	10.1
1C	B00WD3	154.6-157	SO	51.07 M	55.76	2.53	1.12	0.0	32.2	47.6	20.2
1C	B00WD6	160-161.5	SO	43.21 M	50.68	2.56	1.26	1.8	19.6	44.5	34.1
1C	B00WD8	165-166.5	SO	23.64 M	30.98	2.67	1.84	10.2	53.0	34.9	1.9
1C	B00WD9	168-170	SO	22.98 M	39.31	2.76	1.68	11.6	80.0	8.4	0.0
1C	B00WF1	175-176	SO	22.21 M	NR	NR	NR	13.7	80.9	5.4	0.0

\*=Analyses requested, but the condition of the sample was not acceptable for the test.

NR=Analyses not requested due to the sampling method utilized (drive-barrel vs split spoon).

+ =Analyses not requested due to water added to hole during drilling or sample obtained from below the water table.

M=Analyses mistakenly requested.

SO=Analyses mistakenly not requested.

300-FF-5 Work Progress page 1 of 5

February 27, 1992

0 Remedial Investigation Activities

Well Drilling

Well Specifications for Tasks 2, 3, and 4

Activity Completed.

Groundwater Monitoring Wells

Activity Completed.

Geologic Characterization Borehole

Preparations are underway to initiate drilling, with a desired completion date of April 30, 1992. Depth of the borehole will be 165 ft.

Pumping Wells

Drilling of aquifer test borehole 7T was initiated on February 11, 1992, with the installation of the 12" surface casing. The borehole reached total depth (TD) on February 20, 1992. Installation of the screen has been completed and the well is presently being developed. Initiation of the pump test is being planned for the first part of March. Drilling of borehole 4T will be initiated as soon as development of 7T has been completed.

The test plan for this activity that incorporates regulatory comments is presently at DOE for clearance approval. It will be made available as soon as it is cleared for release.

Existing Well Maintenance

Well remediation work has been completed on the initial 8 wells (1-1, 2-1, 3-9, 3-12, 4-1, 4-7, 4-9, and 6-1) that were identified. Change Form 300-FF-5-12 was submitted at the January UMM and has been approved. This addressed some of the field conditions that were encountered during remediation activities. Fitness for use surveys are once again underway in the second group of 25 wells. Surveys have been completed in 11 of these wells. This work has identified at least 5 other wells that require further remediation (1-2, 8-1, 8-2, 8-3, and 8-4). Efforts are being made to initiate this remediation work in the near future.

Task 1--Source Investigation

(Conducted in Source Operable Units)

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February 27, 1992

0 Remedial Investigation Activities (continued)

Task 2--Geologic Investigation

Task 2a - Geophysical Surveys

Work is continuing to reduce data gathered to date. Direction was provided to the geophysics team to concentrate efforts on acquisition and reduction of data for the suspected paleochannel location. A progress report was presented at the January UMM.

Task 2b - 300-FF-5 Wide Geological Characterization

Work continues to utilize the stratigraphic information gained from the new wells drilled to update the fence diagram for the 300 Area. A draft report describing this information is currently undergoing WHC internal review.

Task 3--Soil Investigation

Surface Radiation Survey

Task completed.

Soil Sampling and Analysis

Physical (Table 31) and chemical sampling (Table 35) of all new wells has been completed. The results of physical property testing are being tabulated and prepared for transmittal to the HEIS database. Samples from the last three wells are still at the laboratory being processed. A revised test plan to address leach and adsorption tests that will be conducted during FY 1992 is under WHC review. Additional WHC review and comment incorporation is necessary before the draft plans will be ready for informal regulatory review.

Task 4--Groundwater Investigation

Task 4a - Hydrostratigraphy

Task 4b - Contaminant Distribution in Soil and Groundwater

The first round of groundwater sampling for CERCLA needs in the 300 Area (63 wells) was completed on January 16. The first round 300-FF-5 samples are being analyzed to analytical level IV (CLP), while the 20 wells sampled by RCRA are being analyzed to analytical level III (SW-846).

Plans are underway for the initiation of the second round of groundwater sampling which is scheduled to begin in mid March and be completed by the end of April. Additional discussion of the details will be provided as an attachment to this meeting.

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February 27, 1992

## 0 Remedial Investigation Activities (continued)

## Task 4c - Hydraulic Properties

Thirty transducers (10 additional since last month) have been installed in wells 1-1, 1-7, 1-8, 1-9, 1-10B, 1-16B, 1-18A,B,C, 2-1, 3-9, 3-12, 4-1, 4-7, 4-9, 1A,B,C, 3A, 4A,B,C, 5A,B,C, 6-1, 7A,B,C, and 8A thus far. The transducer at the river monitoring station (SWS-1) has been receiving data since November 7. This leaves only 4 transducers to be installed. Two need well remediation prior to installation (1-2, 8-1) and 2 are near overhead powerlines (2-2, 5-1).

## Task 4d - Aquifer Intercommunication - Well 399-1-16D

Several meetings have been held during the last month to evaluate VOA data from wells in the vicinity of 16D. Preliminary unvalidated data from the first round of sampling indicate elevated levels of TCE and DCE present in wells 16B and 16C. Data from surrounding wells, including newly constructed wells, are at detection limits. A limited field screening effort to obtain weekly data for one month from 16B and 16C has been initiated through PNL to help substantiate the first round CLP data. Geologic information is also being evaluated. This data must be obtained before the 16D remediation plan can be finalized. The present schedule for completion of remediation of this well has been delayed by two months until June, 1992 to address these issues.

## Task 4e - Groundwater Modeling

Modelling efforts continue on schedule.

Task 5--Surface-Water and Sediment Investigation

## Task 5a - Relative Data Compilation

Initiated in conjunction with site wide work and the 100 Areas. A draft report for WHC review was received in mid November. This information will be included in the project files for use during the data evaluation phase.

## Task 5b - Riverbank Springs

The river stage level continues to be at high levels which have prevented the acquisition of spring samples. Monitoring of the SWS-1 monitoring station will continue and sampling will occur when a low period can be predicted (likely next August to September). An update on the river stage level is attached. Geodetic survey of the spring locations is scheduled to occur within the next two weeks.

## Task 5c - Near Shore River Water and Sediment

Approximately 40 near shore river water samples (defined in Table 6 of the SAP) will be taken during the completion of Task 5b, and submitted to OSM for analysis. This work can not be accomplished until Task 5b is performed in order to provide the correlation with the riverbank springs.

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February 27, 1992

## 0 Remedial Investigation Activities (continued)

## Task 5d - Transect River Water

Coordination with the L-045 Project for the Process Sewer effluent treatment facility will continue. Assessment of the data obtained from this work will define further characterization activities. A copy of a draft report on the results of characterization activities was received for review on January 14.

## Task 5e - River Stage

One of the two river stage measurement stations (SWS-1) has been active since November 7, 1991. The location of station SWS-2 has been confirmed. Based on an evaluation performed by PNL after review of the draft report written by C. Sherwood it is not advisable to place the second station at SWS-2 because of its close proximity to SWS-1 (approximately 1/2 mile apart). Alternatives are still being discussed.

## Task 5f - Boundary Conditions Along the Columbia River

Scheduled for FY 1992, if required.

## Task 5g - Numerical Algorithms for Groundwater to Surface Water Dispersion

Scheduled for FY 1992, if required.

Task 6--Air Investigation

(Conducted in Source Operable Units and in coordination with well drilling activities.)

Task 7--Biota Investigations

## Riparian Plants

All (199) of the plant tissue samples (willow and mulberry tree, and reed canary grass) to be collected as part of the subtask for Riparian plants have been sampled. An additional 31 samples were collected at the spring locations. They will all be analyzed for metals and radionuclides as described in Table 8, Section 3.2 of the SAP. A total of 22 sample locations were identified. All of the samples have now been sent to TMA/Norcal for analysis.

## Aquatic Biota

At the present time sampling has been completed at 4 of 12 stations identified in the work plan for periphyton. The remaining 8 stations have been placed and will be sampled during the second round of sampling. An update on the schedule and types of biota to be sampled will be provided at this meeting. Change Form 300-FF-5-13 has been prepared to address the proposed phased approach to aquatic biota sampling.

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February 27, 1992

## 0 Remedial Investigation Activities (continued)

Task 8--Data Evaluation

Performed with data available from the RI when gathered, and supplemented as new information becomes available.

Task 9--Baseline Risk Assessment

Efforts will be initiated soon to begin this task with available data. The site wide methodology being developed as part of Milestone M-29-00 will be utilized as soon as it becomes available. Development of the 300-FF-5 risk assessment has been initiated in conjunction with the risk assessment for the 300-FF-1 OU.

Task 10--Preliminary Site Characterization Summary Report

Task 10a - Draft Report

Task 10b - Final Report

Phase 1 Feasibility Study - Remedial Alternatives Development

Efforts will be initiated soon to begin this task with available data.

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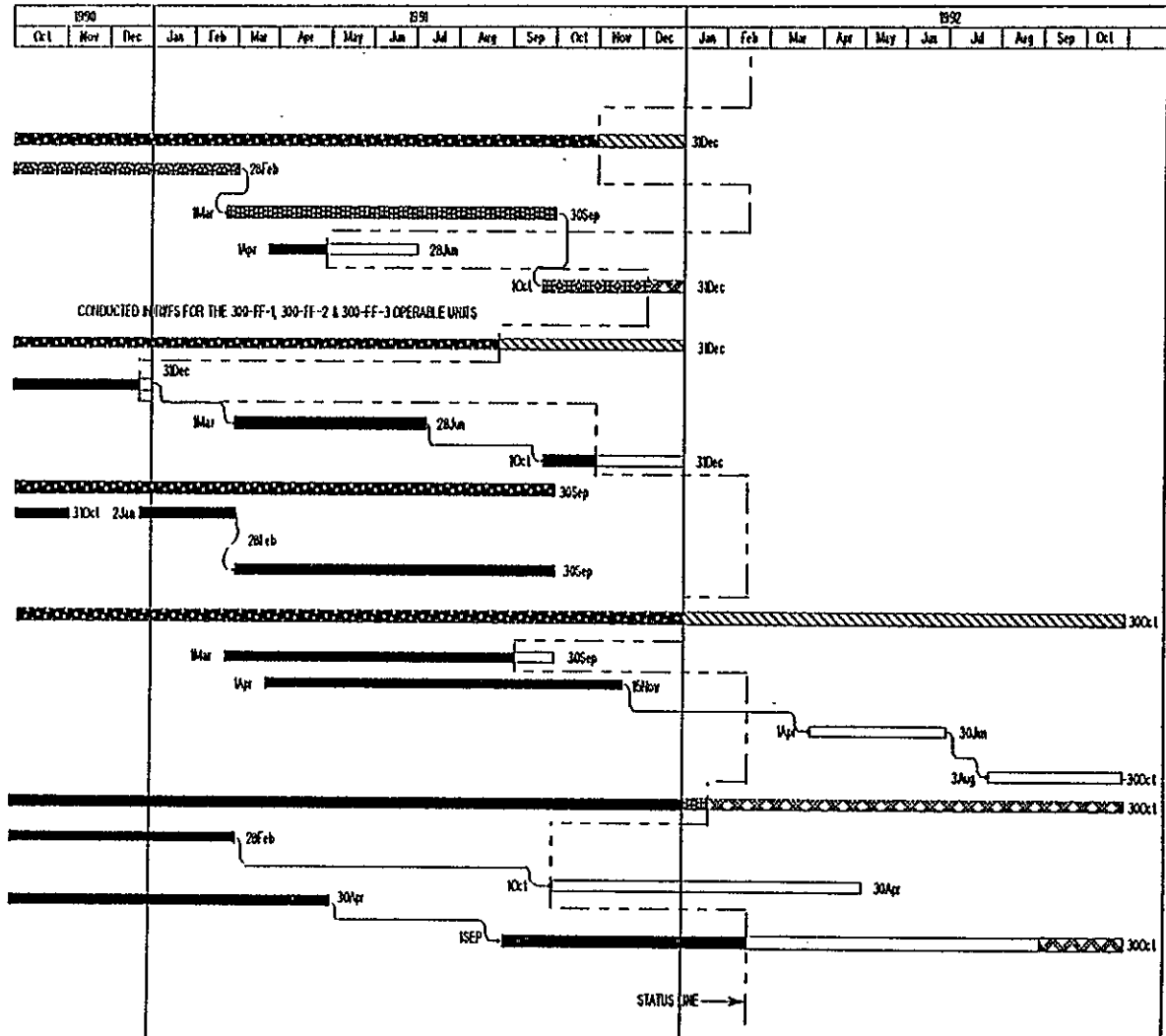


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## BASELINE SCHEDULE STATUS

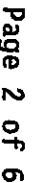
### 300-FF-5 OPERABLE UNIT (RI/FS)

PROJECT MANAGEMENT  
 COMMUNITY RELATIONS  
 PHASE 1 RI-OPERABLE UNIT CHARACTERIZATION  
 WELL DRILLING  
 WELL SPECS. FOR TASKS 2, 3 AND 4  
 GROUNDWATER MONITORING WELLS  
 GEOLOGIC CHARACTERIZATION BOREHOLES  
 PUMPING WELLS  
 TASK-1 SOURCE INVESTIGATION  
 TASK-2 GEOLOGICAL INVESTIGATION  
 TASK-2A GEOPHYSICAL SURVEYS  
 TASK 2b 300-FF-5 WIDE GEOLOGICAL CHARACTERIZATION  
 COMPLETE GEOLOGICAL CHARACTERIZATION  
 TASK-3 SOIL INVESTIGATION  
 SURFACE RADIATION SURVEY  
 SOIL SAMPLING AND ANALYSIS  
 TASK-4 GROUNDWATER INVESTIGATION  
 TASK-4a HYDROSTRATIGRAPHY  
 TASK-4b CONTAMINANT DISTRIBUTIONS IN SOIL/GROUNDWATER  
 CONTINUE SOIL/GROUNDWATER ANALYSIS  
 COMPLETE SOIL/GROUNDWATER ANALYSIS  
 TASK-4c HYDRAULIC PROPERTIES  
 TASK-4d AQUIFER INTERCOMMUNICATION  
 COMPLETE AQUIFER INTERCOMMUNICATION  
 TASK-4e GROUNDWATER MODELING  
 COMPLETE GROUNDWATER MODELING

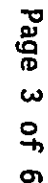


LEGEND		Project: PC2	300FF51	Date: 18 Feb 92 13:33
CRITICAL PATH	ACTIVITY	300-FF-5 OPERABLE UNIT (RI/FS)		
SUMMARY	DECISION POINT	Page: 1 of 6	Drawn by: Steve J. Sakey	6-3092

### 300-FF-5 OPERABLE UNIT (RI/FS)



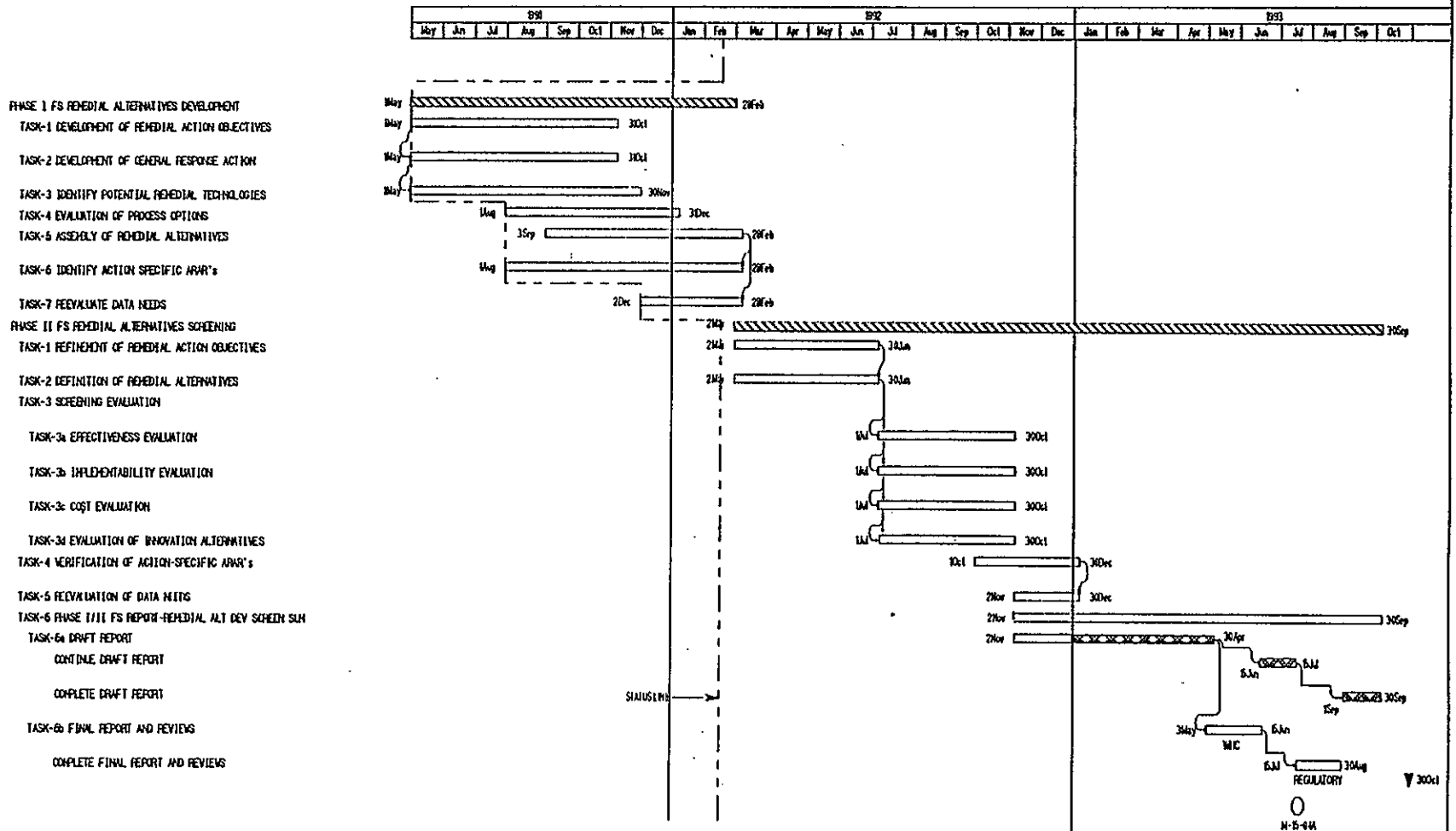
### 300-FF-5 OPERABLE UNIT (RI/FS)



# 9 2 1 2 5 6 2 1 7 2 8

## BASELINE SCHEDULE STATUS

### 300-FF-5 OPERABLE UNIT (RI/FS)



LEGEND		Project	300FF54	Date	18 Feb 92 HOS
BLUES	CRITICAL PATH	■	ACTIVITY	300-FF-5 OPERABLE UNIT (RI/FS)	
■	SUMMARY	▼	FINAL PRIMARY REPORT	Page 4 of 6	
		Drawn by	Slew J. Sakry	6-2092	

9 2 1 2 5 6 2 1 7 2 9  
**BASELINE SCHEDULE STATUS**

**300-FF-5 OPERABLE UNIT (RI/FS)**

**PHASE II RI-TREATABILITY INVESTIGATION**

**TASK-1 TREATABILITY INVESTIGATION WORK PLAN DEVELOPMENT**

**TASK-1a DRAFT PLAN**

CONTINUE WORK PLAN DEVELOPMENT

COMPLETE WORK PLAN DEVELOPMENT

**TASK-1b FINAL PLAN AND REVIEWS**

COMPLETE FINAL PLAN

**TASK-2 TREATABILITY INVESTIGATION IMPLEMENTATION**

**TASK-3 RI REPORT**

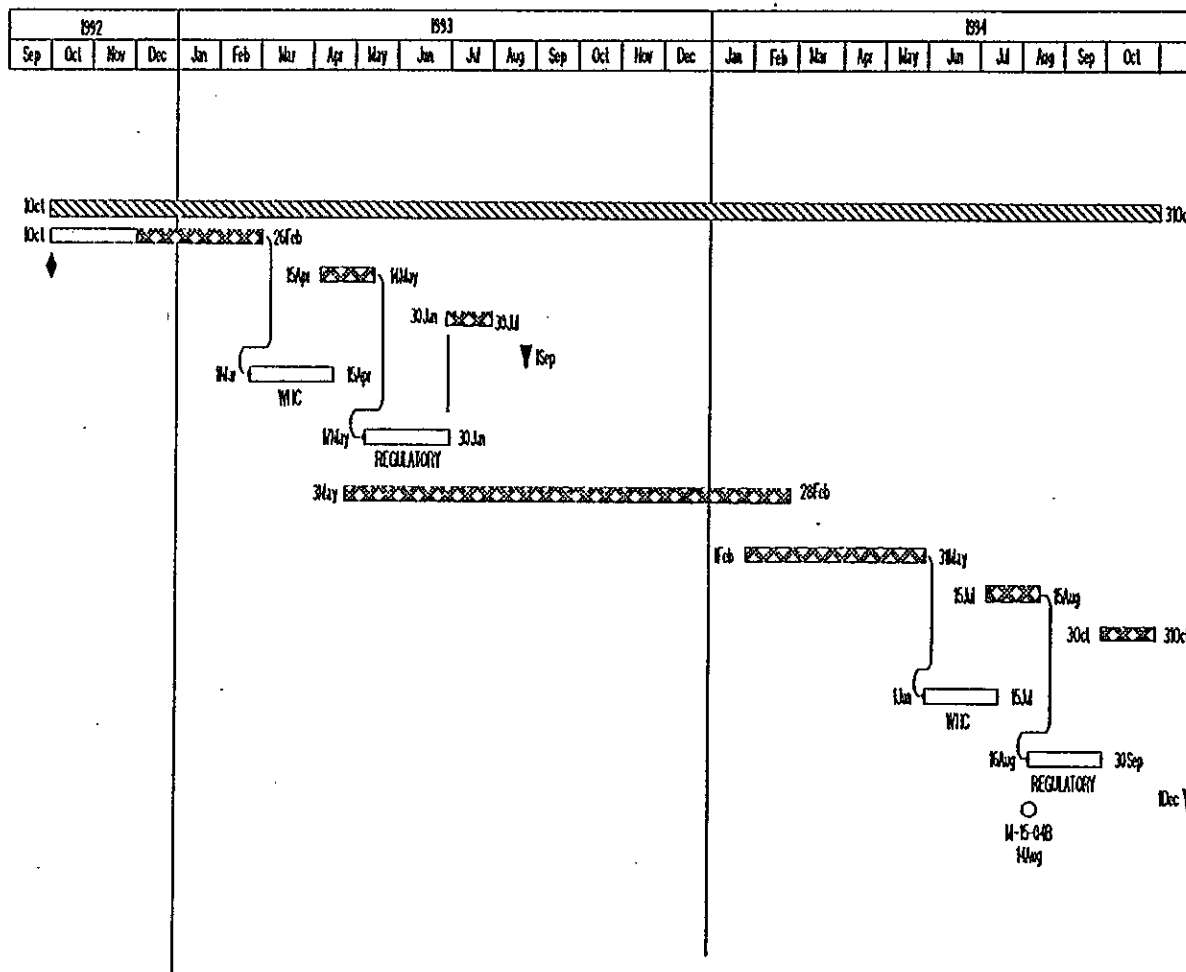
**TASK-3a DRAFT REPORT**




CONTINUE DRAFT REPORT

CONTINUE DRAFT REPORT

**TASK-3b FINAL REPORT AND REVIEWS**

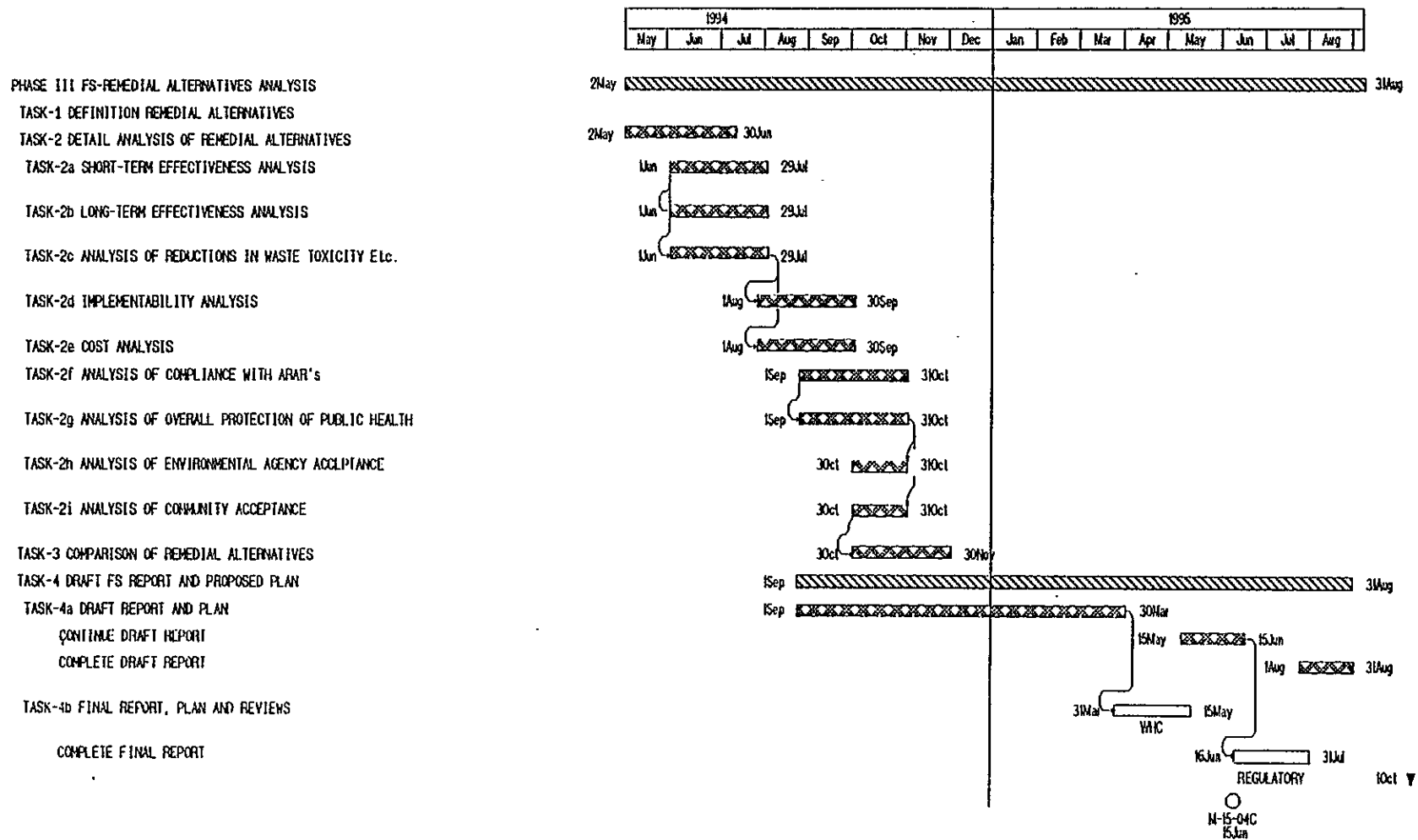
COMPLETE FINAL REPORT



LEGEND		Project	PC2	300FF55	Date: 10 Feb 92 14:06
◆	DECISION POINT	300-FF-5 OPERABLE UNIT (RI/FS)			
▼	FINAL PRIMARY REPORT				
	CRITICAL PATH	Page: 5 of 6	Drawn by	STEVE J. SAKEY	6-3092
	SUMMARY				
	ACTIVITY				

9 2 1 2 5 6 2 1 7 3 0  
**BASELINE SCHEDULE STATUS**

**300-FF-5 OPERABLE UNIT (RI/FS)**



L.C. HULSTROM  
FEBRUARY 27, 1992  
PAGE 1 OF 2

PLAN FOR SECOND ROUND GROUNDWATER SAMPLING FOR 300-FF-5

1. 63 wells (Attachment 1, column 1) will be sampled. Same as first round. Sampling will be initiated in mid March.
2. Continue use of CLP methods of analysis.
3. Use the same laboratories that were used for the first quarter. i.e., use TMA as the main lab and Weston as the split lab.
4. Perform the analyses required to obtain the contaminants of concern (Table 25 from the work plan) on the same 29 wells that were done for the first round of sampling (Attachment 1, column 4). Based on agreement reached April 10, 1991.
5. Perform the analyses required to obtain the full list (Table 35 from the work plan) for 34 wells (Attachment 1, column 3) listed with the following exceptions:
  - a) eliminate analysis for semivolatiles - there is no historical evidence or analytical data that supports the presence of these constituents in 300-FF-5
  - b) eliminate CLP analysis for Cyanide
  - c) eliminate radionuclide analyses for I-129, Tritium, and Plutonium.
6. Perform BOD and coliform analysis at HEHF to insure that holding times are met.
7. Insure that samples from the first round that were cancelled or otherwise flagged due to errors during that round are repeated and collected correctly. i.e., sample B01F17 from well 3-1-7, sample B01F42 (Split 3 sent to Weston), etc.
8. Insure that TOC and TOX samples are sent to Weston.
9. QA/QC sampling shall be performed in the same manner as done for the first round of sampling.

PLAN FOR SECOND ROUND GROUNDWATER SAMPLING FOR 300-FF-5 - CONTINUED

10. RCRA/CERCLA INTEGRATION: For the following wells take sufficient sample to split and send to a lab capable of performing the noted analysis according to SW-846 methods. Also include a duplicate sample for each:

3-1-5	VOA Method 8240
3-1-16B	VOA Method 8240
3-1-16C	VOA Method 8240
3-2-1	VOA Method 8240
3-2-2	VOA Method 8240
3-1-17B	Metals analysis 6010
3-1-19	Metals analysis 6010
3-2-2	Metals analysis 6010
3-3-9	Metals analysis 6010
3-4-7	Metals analysis 6010

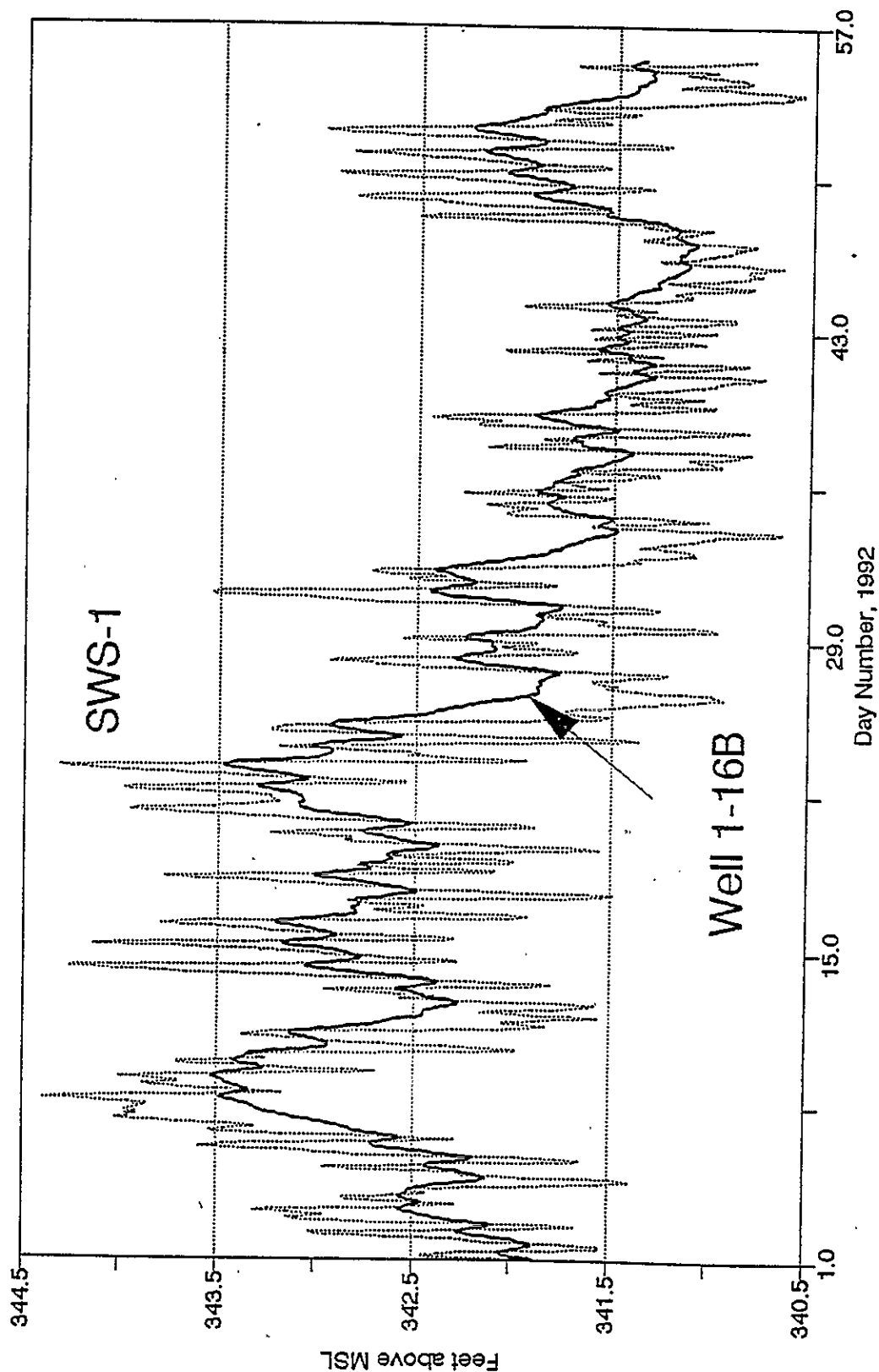
Note that it is the intent to compare the data from these SW-846 analyses to that from the CLP analyses to assist regulatory comparisons between these two methodologies. The data packages received for the SW-846 analyses will include a full stand-alone deliverable (OSM's Level C). Weston will perform the SW-846 analyses while also acting as the split laboratory for the CLP analyses. TMA will be the primary laboratory performing the CLP analyses.

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Attachment #8

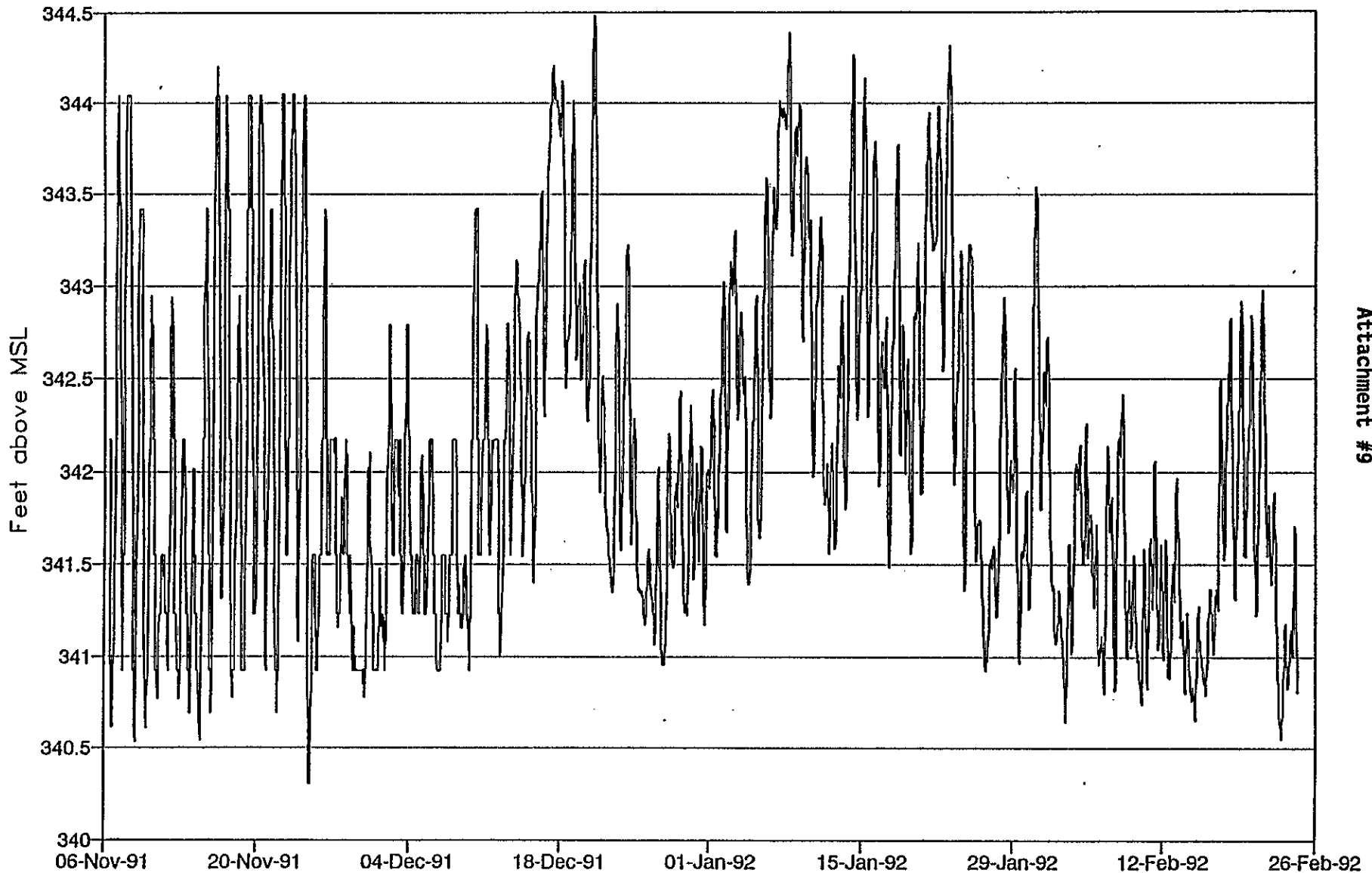
# Water Level Elevation in the 300 Area SWS-1 and Well 1-16B



9 2 1 2 5 5 2 1 7 3 4

# 300 Area River Stage Fluctuations

Nov. 6, 1991 through Feb. 24, 1992



Change Number 300-FF-5-13	APPROVED DOCUMENT CHANGE CONTROL FORM  Do not use blue ink. Type or print in black.	Date 02/27/92
Document Number & Title DOE/RL 89-14, "Remedial Investigation/ Feasibility Study Work Plan for the 300-FF-5 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued June, 1990
Originator L. C. Hulstrom, 300-FF-5 RI Coordinator		Phone (509) 376-4034
Description of Change  The work plan in section 5.3.7.1 states "Although sampling of aquatic biota will initially emphasize the lower trophic levels because they are most likely to contain measurable amounts of contaminants, attention also must be paid to the higher trophic levels because of the possibility of biomagnification of certain contaminants." Rather than sampling several trophic levels at one time, a phased approach is proposed. Table 7 of the FSP indicates sampling would be conducted in five groups: periphyton, macrophytes, rock benthos, soft bottom benthos, and suckers. The proposal suggests sampling of periphyton and macrophytes first, with the results of these samplings input into the Baseline Risk Assessment of the Phase I RI. Based on the results of the risk assessment additional sampling of higher trophic levels could be conducted in the Phase II RI if necessary.  Note: Include affected page number Section 5.3.7.1 (WP-187) and Section 3.1 of the Sampling and Analysis Plan (SAP/FSP-28)		
Justification and Impact of Change  A phased approach is a good utilization of time and available resources. Additional analysis can still be performed if required during the Phase II RI.		
E. D. Goller <u><i>E. D. Goller</i></u> <u>2-27-92</u> DOE Unit Manager Date  D. R. Einan <u><i>D. R. Einan</i></u> <u>27 Feb 92</u> Lead Regulatory Unit Manager Date  Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3		

92125621735

Distribution

300-FF-5 Operable Unit Managers Meeting  
February 27, 1992

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Roger D. Freeberg . . . . . Chief, Rstr. Br., DOE-RL/ERD (A5-19)  
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ADMINISTRATIVE RECORD: 300-FF-5; Care of Susan Wray, WHC (H4-22)

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Please inform Suzanne E. Clarke (SWEC) of deletions or additions to the  
distribution list.

9 2 1 2 5 6 2 1 7 3 6